

Publications Committee

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OF
THE UNIVERSITY OF TEXAS

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EXTENSION SERIES NO. 5

AUGUST 15, 1910

ANNOUNCEMENTS

*Relating to the Work
of the*

Department of Extension

I. CORRESPONDENCE DIVISION

II. PUBLIC DISCUSSION AND INFORMATION DIVISION

III. LECTURE DIVISION



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PUBLICATIONS

OF THE

UNIVERSITY OF TEXAS

Board of Editors—Killis Campbell, Editor-in-Chief; Eugene C. Barker, Secretary and Manager; Robert A. Law, N. L. Goodrich, F. W. Simonds, A. C. Scott, John E. Rosser, James J. Terrill.

The publications of the University of Texas are issued twice a month. They are arranged in the following series: RECORD, MINERAL SURVEY, GENERAL, HUMANISTIC, MEDICAL, SCIENTIFIC, REPRINT, UNIVERSITY EXTENSION, OFFICIAL. For postal purposes they are numbered consecutively as Bulletins without regard to the arrangement in series. With the exception of the special numbers any Bulletin will be sent to citizens of Texas free on request. Communications from other institutions in reference to exchange of publications should be addressed to the University of Texas Library.

THE UNIVERSITY OF TEXAS RECORD has been issued from two to four times a year since December, 1898, and is now in its 10th volume. Its purpose is to preserve a record of the life and progress of the University, and for that reason it is of special interest to alumni, ex-students, and friends of the University. Upon request it will be regularly mailed, free, to any citizen of Texas. Address THE UNIVERSITY OF TEXAS RECORD, Austin, Texas.

The bulletins of the UNIVERSITY EXTENSION and OFFICIAL series, consisting of Announcements of Courses, Catalogues, Regents' Reports, and administrative matter, will be mailed free to any one upon request.

The University still has for distribution copies of the following bulletins:

GENERAL SERIES

4. *Courses of Study in Law Pursued in the University of Texas*, by J. C. Townes. 16 p. March, 1904.
7. *The Consolidation of Rural Schools*, by Una Bedichek and G. T. Baskett. New edition, enlarged by A. C. Ellis. 85 p., illus. November, 1907. 25 cents.
10. *Views of the University of Texas*. 42 p., illus., n. d. 20 cents.
11. *What Should be Done by Universities to Foster the Professional Education of Teachers?* by W. S. Sutton. 24 p. 1905. 15 cents.
15. *The Teaching of Agriculture in the Public Schools*, by A. C. Ellis. 56 p., illus. December, 1906. 25 cents.
16. *A Study in School Supervision*, by Carl Hartman. 180 p. 1907. 50 cents.
17. *Religious Activities at the University of Texas*. 53 p., illus. August, 1909.

(Continued on inside back cover.)

The University of Texas

DEPARTMENT OF EXTENSION
Correspondence Division

Application for Registration.

Be careful and accurate in your replies and answer all questions. The English of the applicant will be taken into account in passing on the application.

Name in Full

Date of Application

Present Address of Applicant

Date of Birth

Place of Birth

Nationality

Occupation

Signatures, Addresses and Occupations of several reliable Persons who will certify to the Good Character and Earnest Purpose of the Applicant

Reason for taking Course

Check, Postal or Express Order covering Fee

Complete List of Schools Attended since Twelve Years of Age, with exact Dates of Attendance

List of Diplomas, Certificates and Degrees held by the Applicant

Exact Number and Title of the Correspondence Course Wanted

Is Degree Credit Wanted?

State Definitely the Work already done in the general Subject in which the desired Correspondence Course falls

Remarks:

RECORD.

Name of Student

Name of Course

Name of Instructor

Notice sent Instructor on

Application Approved by Instructor

Receipt and Address Card sent Student

Course Completed

Grade

Grade sent Registrar

Course Abandoned

Application Rejected by Instructor

Reasons for Rejection

ANNOUNCEMENTS

*Relating to the Work
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AUSTIN, TEXAS:
VON BOECKMANN-JONES CO., PRINTERS
1910

Cultivated mind is the guardian genius
of democracy. . . . It is the only
dictator that freemen acknoweldge and
the only security that freemen desire.

President Mirabeau B. Lamar.

OBJECT OF THE DEPARTMENT OF EXTENSION

The object of the Department of Extension, created by the Board of Regents of the University at their meeting in June, 1909, is to extend, as far as means permit, the advantages of the University to persons who desire to do university work while living away from the University. Owing to lack of funds, the Board was able to provide for only a modest beginning; the Department will be able to extend its services to a limited number of persons only, and it must also be partially self-supporting. Nevertheless, it is hoped that many who are unable to take up work in residence will be able to avail themselves of the opportunity herein presented to profit by university instruction while remaining at home. By the creation of this Department, the Board of Regents hopes to increase the usefulness of the University to the people of Texas, and expects the Extension work, thus modestly begun, to grow greatly as time advances.

It is planned to conduct the work of the Department of Extension in three divisions:

- I. Correspondence Division.
- II. Public Discussion and Information Division.
- III. Lecture Division.

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DEPARTMENT OF EXTENSION

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I. CORRESPONDENCE DIVISION

GENERAL INFORMATION

A. TEACHING BY MAIL.

Teaching by correspondence has already successfully passed the experimental stage; while such teaching lacks some of the advantages of class room instruction, there are substantial compensations. In correspondence instruction the teaching is quite personal; each student comes in contact with the teacher as an individual, and has full opportunity to discuss in writing all difficulties that are met. This written discussion in itself affords valuable training. Moreover the teacher can direct the work of the student and correct written exercises almost as well by mail as in any other way. Correspondence work enables one to utilize spare time to great advantage; it develops initiative, self-reliance, perseverance, and accuracy.

B. METHOD OF INSTRUCTION.

A correspondence course will furnish a systematic presentation of a subject in from ten to twenty-five lessons, and something like a hundred hours of work will be required for the average student to master a course. The rapidity with which a student can master a correspondence course will depend on the diligence, ability, and preparation of the individual concerned.

Each lesson will contain (1) a very definite assignment of the work from the text and reference books; (2) directions and suggestions concerning the study of the assignment; and (3) questions to test the student's mastery of the lesson assigned.

After preparing the lesson, the student will write out answers to the questions, and will make as clear a presentation as possible of the difficulties he has met. After being received by the instructor, the answers will be promptly corrected, the difficulties will be especially explained, and the answers returned to the student. In this way a correspondence student gets personal advice and instruction throughout the course.

C. ADMISSION.

No entrance examination will be required of applicants for correspondence courses; but before allowing a student to register for a

course, the University will require that certain information be furnished upon a formal application blank, and will reserve the right to reject the application if the data furnished on the blank justify such action. If the application for a course be rejected, the fee for the course will be returned. Registration for correspondence courses may take place at any time.

D. STUDENTS.

The courses offered are intended to appeal particularly to (1) teachers who desire to improve their scholarship in any special subject; (2) college students who are unable to take all the courses for a degree in residence; (3) ministers and professional and business men who desire to take courses that will help them in their special work; (4) members of religious, women's, farmers', debating, literary, and business clubs, and labor unions; (5) other persons interested in literary and scientific topics.

E. COURSES.

With the exception of several preparatory courses in Latin, the correspondence courses now offered by the University fall into two groups:

1. Courses of College Grade.
2. Courses Preparatory to Teachers' Certificates.

The list of courses of college grade (see pages 15 to 39) is as complete as it is at present possible to make it. Students who desire courses which are not on the list should write to the Director, stating their desires as accurately as possible. It may be possible in special cases to give the correspondence course desired.

The list of courses preparatory to Teachers' Certificates includes all the subjects in which candidates for First Grade, Permanent Primary, and Permanent Certificates are examined. For general statements concerning these courses, see page 11, and for details concerning particular courses see pages 40 to 44.

F. CREDITS FOR COURSES OF COLLEGE GRADE.

Each correspondence course will include the amount of work required in one-third of a course taken in residence at the University.

With a few exceptions, each correspondence course of College Grade will follow as closely as possible some third of a course offered to resident students, and in such cases will count one-third of a course toward a degree upon precisely the same terms as the corresponding work done in residence, subject to the following restrictions:

Not more than half of the courses required for any degree may be

done by correspondence, and no degree will be conferred without a residence of at least one year at the University. Not more than one-third of the courses required for the degree of Bachelor of Laws may be done by correspondence.

The requirements for a degree are not modified when some of the courses required for the degree are done by correspondence work, but remain precisely as set forth in the catalogue of the University.

To secure credit toward a degree, the student in a correspondence course must pass an examination on the course either at the University or at some designated place. By making arrangements with the local school superintendent or high school principal to supervise the examination, the student will be enabled to take the examination without leaving home. The Director of the Department of Extension must be furnished with the name of the local supervisor and a convenient time of holding the examination must be agreed upon. Correspondence examination papers will be graded according to the same standards applied in grading term examination papers handed in by regular students. Certificates of credit will be sent to successful students.

If a student does not desire credit toward a degree, the examination need not be taken.

G. COURSE PREPARATORY TO TEACHERS' CERTIFICATES.

These courses, which will be found listed on pages 40 to 44, and which have been given for many years in the University Summer Schools are now offered for the first time by correspondence. Each subject will be covered in a very thorough manner, and the mere ability to pass an examination will be regarded as entirely secondary to the acquisition of sound training and information. The object of the University in offering these courses is to provide additional opportunities for the improvement of Texas teachers, not to produce a larger number of holders of certificates. Nevertheless, because of the thoroughness with which these courses are to be given, students who successfully complete them ought to have no trouble in passing the examinations set from time to time by the State Superintendent of Public Instruction. Persons who desire to obtain certificates with as little work as possible are advised to avoid these courses.

The work given in Algebra, Bookkeeping, Chemistry, Plane Geometry, Solid Geometry, Psychology, and Trigonometry will vary but slightly from year to year. On the other hand, owing to the immense amount of material in the History of Education, General History, Literature and Physics, the State Superintendent has very wisely ruled that the examinations for certificates in these subjects in any one year shall cover only a part of each subject. This ruling of the State Superintendent secures

greater concentration, the examinations may be made more searching, and the preparation for them more profitable. For example, the examinations in general history for First Grade Certificates deal only with Ancient History in 1911 while in 1912 they will deal only with Medieval History. As a consequence, students desiring to prepare for the general history examination by correspondence in 1910-11 should register for Ancient History. See pages 40 to 44, where the schedule of the subjects with dates fixed by the State Superintendent are fully set down.

No one under 21 years of age will be allowed to register for these correspondence courses in certificate subjects.

No credit for these courses is allowed either by the State Superintendent or by the University. To secure a certificate, the regular examination set by the State Superintendent must be passed.

H. FEES.

The fee for *each* correspondence course will be \$7.00, payable in advance.

The necessary text-books and equipment must be purchased by the student, who must also pay the postage one way on the lesson papers. The University pays the postage the other way.

If a student fails to complete a correspondence course, the fee is not returnable.

Money should be sent by postal or express orders or by checks payable at any of the large Texas cities and should be made payable to the Secretary of the Department of Extension.

I. BOOKS, ETC.

Text-books, maps, etc., for use in the various courses may be obtained from the University Co-operative Society, University Station, Austin; from the publishers; or from local dealers. The cost will vary from \$1.00 to \$5.00 for a correspondence course, the average perhaps being under \$3.00. *In exceptional cases*, some of the books needed may be borrowed for short intervals from the University Library. Applications for such loans should be addressed to the Librarian of the University.

Books, maps, and other equipment can be best purchased after consultation with the instructor in charge of the course.

J. METHOD OF REGISTRATION.

A student desiring to take one or more correspondence courses should *write to the Director of the Department of Extension for registration cards, giving full name and address, and stating the number of courses desired.*

On receiving these cards from the Director, the prospective student should *fill out and return a separate registration card for each course desired, giving all the information asked for on each card. He should enclose \$7.00 for each card so filled.*

With the exception of "Remarks" each blank space *must* contain its appropriate information. The "Record" on the back of the registration card is not to be filled by the student.

When these cards, properly filled, have been returned to the Director at Austin, they will be submitted to the instructors giving the desired courses.

In case of approval, the student will be registered for the course and will be furnished promptly *by the instructor* with complete directions for beginning the work, after which there will be an interchange of lesson papers and answers between instructor and student until the course is finished.

In case an instructor decides that a prospective student is not qualified to take his course, the fee will be returned. Often in such cases, however, the student may be advised as to what courses can be profitably undertaken, and may of course accept or reject such advice.

K. REGULATIONS AND SUGGESTIONS.

A correspondence course of college grade is one-third of what is called a "full" course in the annual catalogue of the University. For example, English 1f, on page 23 of this Bulletin is a correspondence course, although it is only one-third of Freshman English as described in the regular catalogue. Therefore, the entire cost by correspondence of a full course in English, or in any other subject, is \$21.

No reduction in fees is made when several courses are taken simultaneously.

If a student fails to complete a correspondence course within one year, or if at any time after the date of registration three months pass without the receipt of lesson papers from the student, the registration lapses. In such cases the student must register again for the course and pay a second fee if it be desired to complete the course.

Private arrangements between student and instructor for extension of time will not be recognized.

Promptness and punctuality on the part both of student and instructor are vital to the success of correspondence work. Students are therefore earnestly urged to report to their instructors at least once every two weeks.

Students who have made F on a course taken in residence will not be allowed to register for the same course in the Department of Extension. Students who have made E on a course taken in residence will be al-

lowed to register for the same course in the Department of Extension only in special cases where extenuating circumstances can be shown.

Students in residence at the University can register for courses in the Department of Extension only after securing the approval of the Dean of the College of Arts.

Upon request, in certain cases, students registered in correspondence courses will be allowed to attend regular classes in the work for which they are registered.

Requests for further information, complaints, etc., should be made to the Director.

CORRESPONDENCE COURSES OF THE COLLEGE GRADE

BOTANY

16f. ELEMENTARY PHYCOLOGY.

A consideration of type forms of the principal groups of fresh water and marine algæ in the following order: 1, blue-green algæ; 2, brook silks and desmids; 3, diatoms; 4, green algæ; 5, brown algæ or rock weeds and kelps; 6, red algæ; 7, the stone worts. This is an elementary course and is equivalent to the first third of Botany 16. Work covering the remainder of Botany 16 will be offered after the above has been completed.

Professor HEALD.

21f. SEED PLANTS.

A study of the general morphology and classification of seed plants with a consideration of types selected to illustrate natural relationships. Field and laboratory study.

Professor HEALD.

20f. ELEMENTARY PLANT PATHOLOGY.

The course will include a study of symptoms of disease in plants mainly from field work with a study of the causal organisms in the laboratory. Open only to those students who have completed the part of Botany 16 dealing with fungi, or to those who have had equivalent work.

Professor HEALD.

NOTE.—Only those who have the use of a compound microscope (one with $\frac{3}{8}$ and $\frac{1}{8}$ objective and 1-inch eye piece or equivalent) will be permitted to register for correspondence work outlined above.

CIVIL ENGINEERING

2f. LAND SURVEYING.

Full instruction in principles of surveying land, calculating areas, use of compass, chain, tape, divisions of land, tracing old lines, changes in variation (declination) of needle.

A knowledge of trigonometry is required of those who take this course.

Mr. FINCH.

2w. GOVERNMENT LAND SURVEYING.

Location of meridians by sun and north star, U. S. Government methods. Use of transit.

Course 2f is a prerequisite.

Mr. FINCH.

2s. RAILROAD SURVEYING.

Study of railroad surveying in preliminary and location surveys, use of level profiles, maps of line, contours, earthworks.

Adjunct Professor BANTEL.

34. HYDRAULICS.

(Required trigonometry, analytics, and calculus).

Principles of the hydraulics including amount of pressure, center of pressure, flow of water through orifices, standard tubes, pipes, in open channels and over different kinds of weirs; water power; water motors.

Professor TAYLOR.

15s. SANITARY ENGINEERING.

(Chemistry 1 and Civil Engineering 34 are prerequisite.)

Adjunct Professor BANTEL.

25w. IRRIGATION ENGINEERING.

Professor TAYLOR.

31s. GRAPHICS AND DESIGN.

This course will take up in brief the following: force polygon, equilibrium polygon, graphic conditions of equilibrium, graphic determination of reactions, stresses for symmetrical and unsymmetrical roof trusses, both simple and ambiguous cases, complete design of steel roof truss.

A course in mechanics is prerequisite.

Mr. FINCH.

DRAWING

12f. MECHANICAL DRAWING.

Use of ruling pen, compass in drawing geometrical figures, four plates 18x24 inches. Neat freehand lettering will be a fundamental requirement.

Mr. LIVESAY.

12w. MECHANICAL DRAWING.

Drawing from dimensions and models. Four plates 18x24 inches. Better lettering.

Continues 12f.

Mr. LIVESAY.

12s. MECHANICAL DRAWING.

Continues course 12w.

Mr. LIVESAY.

ECONOMICS

1f. PRINCIPLES OF ECONOMICS.

In this course the fundamental principles underlying the modern economic system, such as the laws governing the development of production under an exchange system, and the laws of value and distribution, are made the chief object of study.

1w. PRINCIPLES OF ECONOMICS.

Continuation of Course 1f.

1s. PRINCIPLES OF ECONOMICS.

Continuation of Course 1w, special attention being paid to problems of industrial concentration and labor organizations.

Associate Professor HANEY.

4f. TRANSPORTATION.

This course gives a brief account of the historical development and a general description of the transportation systems of Europe and the United States.

Dr. MILLER.

EDUCATION

5f. HISTORY OF EDUCATION.

In this course a preliminary survey is made of primitive and oriental culture. Greek and Roman civilization and education form the major part of the work, and must be studied intensively. Special attention is likewise directed to the influence which Greek culture exerted upon Roman civilization. In addition to the routine work, an essay upon some phase of Greek or Roman education, agreed upon by the instructor, is required. The course covers the material of the fall term of Education 5, as published in the regular catalogue. It is open only to advanced University students that have completed Education 3 and 4, and it will be accepted for the B. A. and the M. A. degrees. A syllabus of the work can be obtained upon application. In the syllabus the student will find fuller information regarding the course.

The reference books needed by the student taking this course will cost about ten dollars (\$10.00).

Professor SUTTON and Dr. EBY.

32. METHOD IN TEACHING.

Five hours a week throughout the term.

In this course, laws of teaching as conditioned by the facts of learning will be emphasized. Method will be studied as a necessary, psychological, logical course of procedure, and illustrations from the work of master-teachers will be examined in order that the ruling principles of method may be clearly understood. McMurry's *Method of the Recitation* and Bagley's *Educative Process* will serve as a foundation for the correspondence lessons in this course, and a copy of each of these two books should be in the hands of the student. Other collateral reading will be required.

Dr. EBY.

3f. THE PSYCHOLOGY OF EDUCATION.

This course deals with those phases of psychology which throw light upon the problems of education, both those of the school and of the general educative work of life incident to parenthood and to all kinds of leadership among men. The following topics will be studied: association, memory, imagination, perception, conception, sensation, the nervous system, habit, and instinct.

This course is the same as Education 3f (see University catalogue), except that a thesis is required in place of ten laboratory periods. It will be accepted in lieu of Education 3f and together with Education 3w will be counted as two-thirds of a course credit toward a University degree and teacher's certificate. The cost of text-books for this course will be \$3.20. In addition, there will be a small expense on account of express charges on reference books sent from the University Library. The same text-books serve also for Education 3w.

Professor ELLIS.

3w. THE PSYCHOLOGY OF EDUCATION.

This course is a continuation of Education 3f, and deals with the following topics: emotion, interest, attention, discrimination, reason, personality, will.

This course is the same as Education 3w (see University catalogue), and will be accepted in its stead. Together with Education 3f it will be counted as two-thirds of a course credit toward a University degree and teacher's certificate. The same text-books are used as in Education 3f.

Professor ELLIS.

4s. CHILD STUDY.

This course is intended for teachers, parents, and all others who have to deal with children. In this course are studied those changing phases of physical and psychological life through which the young must pass in

the process of growth and development. The scope of the course is fairly indicated by the following topics which are treated: aims and methods of studying children; general laws of body growth, of brain growth, of mental growth; nascent periods; retardation periods; vestigial organs; development periods; imitation and suggestion; stubbornness; plays and games; social instincts; literary tastes; attitudes of children toward discipline and punishment.

This course is the same as Education 4 (see University catalogue), will be accepted in its stead, and will be counted as one-third of a course credit toward a University degree and teacher's certificate. The text-books used in this course cost \$3.50. In addition there will be a small expense on account of express charges on reference books sent from the University Library.

Professor ELLIS.

17f. THE PHILOSOPHY OF EDUCATION.

In this and the two following courses will be studied the growth of those philosophical and psychological ideas that have underlain and conditioned the various great systems of education. It will not be a study of methods of teaching, but an attempt to determine the ultimate aims and fundamental principles of education. In this course will be studied the philosophies of education advanced by Socrates, Plato, Aristotle, and the early Churchmen.

This course is an "Advanced" course, is the same as the fall term of Education 17, and counts as one-third of a course credit toward a University degree and teacher's certificate. It should be undertaken only by those of mature mind and serious purpose, who know something of the psychology of education and of the history of education. The text-books used in this course cost \$6.00. Unless the student has access to a good library, there will be a small additional expense on account of express charges on reference books sent from the University Library.

Professor ELLIS.

17w. THE PHILOSOPHY OF EDUCATION.

This course is a continuation of Education 17f, and deals with the contributions to the philosophy of education made by Bacon, Comenius, Locke, Kant, Fichte, Schelling, Schiller, and Hegel.

This is an "Advanced" course, is the same as the winter term of Education 17, and counts as one-third of a course credit toward a University degree and teacher's certificate. The text-books in this course cost about \$6.00. Unless the student has access to a good library, there will be a small additional expense on account of express charges on reference books sent from the University Library.

Professor ELLIS.

17s. THE PHILOSOPHY OF EDUCATION.

This course is a continuation of Education 17f and 17w and deals with the contributions to the philosophy of education made by Herbart, Rousseau, Froebel, Spencer, and G. Stanley Hall.

This is an advanced course, is the same as the spring term of Education 17, and counts as one-third of a course credit toward a University degree and teacher's certificate. The text-books in this course cost about \$6.00. Unless the student has access to a good library, there will be a small additional expense on account of express charges on reference books sent from the University Library.

7. EDUCATION SEMINAR.

This course is for graduate students, well-trained in education, who wish to study special topics and conduct investigations of pedagogical problems. The topics of study and plans of investigation will be arranged in each case to meet the needs of the students. The cost of books and equipment would vary so with different problems that no general statement of cost can be made.

Professor ELLIS.

33. THE PRINCIPLES OF EDUCATION.

Assigned readings, abstracts, criticisms, thesis.

This course is designed to furnish an elementary introduction to the philosophy of education and a general survey of the principles underlying the different phases of education,—the intellectual, the moral, and the physical. Some of the topics studied are: play in education, gymnastics, manual training, physical examinations and medical inspection, moral training and moral instruction, the course of study and education values. In Spencer's *Essays on Education* is found the basis of the lectures and discussions. This course is equivalent to the second term of what was formerly known as Education 2.

The cost of books for this course will amount to \$2.50 to \$5.00. Should the student have access to a good library, this amount would be materially reduced.

Dr. RALL.

ELECTRICAL ENGINEERING

18. ELEMENTS OF ELECTRICAL ENGINEERING.

An elementary treatment of magnetism and electricity which will show the scope of Electrical Engineering in general and serve as a preliminary to the deeper study of the theory and operation of direct current and alternating current electric machinery.

Professor SCOTT.

1A. APPLIED ELECTRO-MAGNETISM.

A discussion of electro-magnets; the theory of operation and regulation, and the practical construction, management, and methods of testing direct current dynamos and motors.

Mr. KENYON.

1B. APPLIED ELECTRO-MAGNETISM.

A study of types, uses, and installations of storage batteries; wiring for light and power, including subway and underground methods.

Mr. KENYON.

1C. APPLIED ELECTRO-MAGNETISM.

A study of controlling devices, and types of lamps and meters in direct current electrical engineering practice.

Mr. KENYON.

NOTE.—The three correspondence courses, 1A, 1B, and 1C, just listed are equivalent to Electrical Engineering 1 of the University catalogue, and, therefore, give only two-thirds of a credit toward a degree, when successfully completed.

3A. ALTERNATING CURRENTS.

Theory and application of single phase and polyphase currents.

Professor SCOTT.

3B. ALTERNATING CURRENTS.

Operation and testing of alternating current machinery, including alternators, synchronous and induction motors, rotary converters and transformers.

Professor SCOTT.

3C. ALTERNATING CURRENTS.

Theory and operation of electric meters; a discussion of switchboards and controlling devices and apparatus; calculation of high tension transmission lines.

Professor SCOTT.

NOTE.—The three correspondence courses, 3A, 3B, and 3C, just listed, are equivalent to Electrical Engineering 3 of the University catalogue, and, therefore, give only two-thirds of a credit toward a degree, when successfully completed.

10A. POWER PLANT ENGINEERING.

A study of the general character of fuels, their calorific value, and economical use for power purposes.

Professor SCOTT.

10B. POWER PLANT ENGINEERING.

The construction, operation, and testing of steam boilers, gauges, injectors, and pumps.

Professor SCOTT.

10C. POWER PLANT ENGINEERING.

A study of the steam engine; valve gears; the steam engine indicator, and its use; indicator diagrams and their significance; valve setting on the Corliss engine; theory, methods of construction and operation of steam turbines; methods of testing engines and turbines.

Professor SCOTT.

10D. POWER PLANT ENGINEERING.

Elementary theory and operation of gas engines, oil engines, and producer gas plants; causes of trouble and remedies therefor; indicating, and calculation of horsepower; methods of testing.

Professor SCOTT.

NOTE.—The four correspondence courses just listed are equivalent to Electrical Engineering 10 of the University catalogue, and, therefore, give only two-thirds of a course credit toward a degree, when successfully completed.

20. AUTOMOBILE ENGINES.

Theory and manipulative methods pertaining to these engines; chief sources of trouble and remedies therefor; calculation of horsepower; effect of varying the mixture; indicating; spark coils, magnetos, etc.

Mr. WEAVER.

8A. TELEPHONY.

The construction, equipment, operation, and maintenance of telephone lines.

Mr. CORRELL.

8B. TELEPHONY.

Appliances connected with telephony and electric signaling.

Mr. CORRELL.

NOTE.—The two correspondence courses, 8A and 8B, just listed, are equivalent to Electrical Engineering 8 of the University catalogue, and, therefore, give credit for only one-third of a course toward a degree, when successfully completed.

12W. ILLUMINATION.

Photometric methods and the determination of the intensity of illumination.

Professor SCOTT.

12s. ILLUMINATION.

A study of the theory and use of the optical lantern, and the making of lantern slides.

Professor SCOTT.

ENGLISH

ENGLISH 1f. COMPOSITION.

This course involves (a) a study of the rhetoric of the whole essay, of the paragraph, and of the sentence; (b) the analysis of certain masterpieces of English prose, mainly the essays of Macaulay; and (c) abundant practice in writing. As in all other courses in English Composition in the University, chief stress will be laid on the written work; and each essay will be carefully corrected and returned to the student, with such comments as seem most likely to be helpful. The texts used will be Newcomer's *Elements of Rhetoric*, pp. 1-155 (Holt and Co., New York; price, \$1.25); Hill's *General Rules for Punctuation* (Charles W. Sever and Co., Cambridge; price, 25 cents); *Select Essays of Macaulay* (edited by Samuel Thurber: Allyn and Bacon, Chicago; price, 70 cents); and Nutter, Hersey, and Greenough's *Specimens of Prose Composition* (Ginn and Co., Boston; price, \$1.25). Parallel reading will be required.

Dr. PAYNE.

ENGLISH 1w. COMPOSITION.

This course involves (a) a study of the rhetoric of words and figures, and of exposition and argumentation; (b) the analysis of certain English prose masterpieces, mainly expository and argumentative; and (c) abundant practice in writing. The texts used will be Newcomer's *Elements of Rhetoric*, pp. 156-294 (Holt and Co., New York; price, \$1.25); Nutter, Hersey, and Greenough's *Specimens of Prose Composition* (Ginn and Co., Boston; price, \$1.25); *Selections from Addison* (edited by Wendell and Greenough: Ginn and Co., Boston; price, 80 cents); and *Selections from De Quincey* (edited by M. H. Turk: Ginn and Co., Boston; price, 90 cents). Parallel reading will be required.

The course is a continuation of English 1f, and no student who has not had that work or its equivalent will be admitted to this course without the consent of the instructor in charge.

Mr. BASKERVILL.

ENGLISH 1s. COMPOSITION.

This course is equivalent to and will count as the spring term of English 1 of the regular session. It involves (a) a study of the rhetoric of narration and description; (b) the analysis of certain English prose masterpieces, mainly narrative and descriptive; and (c) abundant prac-

tice in writing. The texts used will be Nutter, Hersey, and Greenough's *Specimens of Prose Composition* (Ginn and Co., Boston; price, \$1.25); Hawthorne ("Little Masterpieces Series," edited by Bliss Perry: Doubleday, Page, and Co., New York; price, 50 cents); Thackeray's *Henry Esmond* (Macmillan and Co., New York; price, 25 cents); *Essays of Robert Louis Stevenson* (edited by W. L. Phelps: Charles Scribner's Sons, New York; price, 75 cents). Parallel reading will be required.

The course is a continuation of English 1w, and no student who has not had that work or its equivalent will be admitted to this course without the consent of the instructor in charge.

Dr. PAYNE.

ENGLISH 2f. ENGLISH LITERATURE FROM CAEDMON TO SHAKESPEARE.

The aim of this course is to give the student a general view of the history and development of English literature from Caedmon to Shakespeare. A text-book presenting the literary history of the period will be used, but most of the time will be devoted to a first-hand study of representative works of the authors dealt with. Parallel reading and essays will be required. Works of the Old English and of the Middle English periods will be studied in translations or in modernized versions. The following text-books will be used: Pancoast's *Standard English Poems*, pp. 1-87 (Holt and Co., New York; price, \$1.50); Crawshaw's *The Making of English Literature*, chapters I-VIII (D. C. Heath and Co.; price, \$1.25); Cook and Tinker's *Translations from Old English Poetry* (Ginn and Co., Boston; price, \$1.00); *Beowulf* (translated by C. G. Child: Houghton, Mifflin, and Co., Boston; price, 25 cents); Greenlaw's *Selections from Chaucer* (Scott, Foresman, and Co., Chicago; price, 40 cents); Langland's *Piers the Plowman Done into Modern English* (by W. W. Skeat: Chatto and Windus, London; price, 60 cents).

Prerequisite: English 1.

Adjunct Professor GRIFFITH.

ENGLISH 2w. ENGLISH LITERATURE FROM SHAKESPEARE TO THOMSON.

The aim of this course is to give the student a general view of the history and development of English literature from Shakespeare to Thomson. A text-book presenting the literary history of the period will be used, but most of the time will be devoted to a first-hand study of representative works of the authors dealt with. Parallel reading and essays will be required. The following text-books will be used: Pancoast's *Standard English Poems*, pp. 88-193 (Holt and Co., New York; price, \$1.50); Crawshaw's *The Making of English Literature*, chapters IX-XI (D. C. Heath and Co., New York; price, \$1.25); Thayer's *Best*

Elizabethan Plays (Ginn and Co., Boston; price, \$1.25); Shakespeare's *Macbeth* (edited by E. K. Chambers: D. C. Heath and Co., Boston; price, 25 cents); Shakespeare's *As You Like It* (edited by J. C. Smith: D. C. Heath and Co., Boston; price, 25 cents); Shakespeare's *Twelfth Night* (edited by A. D. Innes: D. C. Heath and Co., Boston; price, 25 cents).

Prerequisite: English 1.

Adjunct Professor GRIFFITH.

ENGLISH 2s. ENGLISH LITERATURE FROM THOMSON TO TENNYSON.

The aim of this course is to give the student a general view of the history and development of English literature from Thomson to Tennyson. A text-book presenting the literary history of the period will be used, but most of the time will be devoted to a first-hand study of representative works of the authors dealt with. Parallel reading and essays will be required. The following text-books will be used: Pancoast's *Standard English Poems*, pp. 194-577 (Holt and Co., New York; price, \$1.50); Crawshaw's *The Making of English Literature*, chapter XII to the end (D. C. Heath and Co., New York; price, \$1.25).

Prerequisite: English 1.

Adjunct Professor GRIFFITH.

FRENCH

Af. COMPOSITION AND READING.

Downer's *First French Book*; Joyne's *Contes de Fées*; Mérimée's *Colomba*. Prose composition and written translation.

Mr. OSTRANDER.

Aw. COMPOSITION AND READING.

Continuation of Af, using the same texts.

Mr. OSTRANDER.

As. COMPOSITION AND READING.

Continuation of Aw, using the same texts.

Mr. OSTRANDER.

1f. COMPOSITION AND READING.

Fraser and Squair's *French Grammar*; George Sand's *La Mare au Diable*; Victor Hugo's *La Chute*; About's *Le Roi des Montagnes*; Sardou's *Mlle. de la Seiglière*; Thier's *La Campagne de Waterloo*; Daudet's *La Belle Nevernais*; Bazin's *Contes Choisis*.

Course A is prerequisite.

Adjunct Professor VILLAVASO.

1w. COMPOSITION AND READING.

Continuation of 1f, using the same texts.

Adjunct Professor VILLAVASO.

1s. COMPOSITION AND READING.

Continuation of 1w, using the same texts.

Adjunct Professor VILLAVASO.

NOTE.—If there is sufficient demand, other courses may be offered. Inquiries concerning additional work in French should be addressed to Adjunct Professor VILLAVASO.

GEOLOGY

1f. PHYSIOGRAPHY.

Based on Salisbury's *Physiography (Briefer Course)* as a text. This course will deal with the subterranean and surface agencies that modify the surface of the globe; the composition, formation, and structure of rocks; faults, folds, and associated phenomena.

Professor SIMONDS.

1w. GEOLOGY.

Based on the first half of Scott's *Introduction to Geology* (second revised edition).

Professor SIMONDS.

1s. GEOLOGY.

Continuation of course 1w, completing the text-book.

Professor SIMONDS.

GERMAN

The number of lessons in each of the following courses will range from fifteen to twenty-five, according to special conditions.

Af. GRAMMAR AND READING.

This will include the declension of the article, the noun, and the adjective; about eighty pages of easy idiomatic German prose. This course is intended for those having little or no knowledge of German reading or grammar. Thomas's *Practical German Grammar* will be the text-book.

Miss SPAETH.

Aw. GRAMMAR AND READING.

A continuation of Af, including the numerals, the pronouns and the verb as far as the passive voice; about eighty pages of easy, idiomatic

German prose. Thomas's *Practical German Grammar* will be used as text-book.

MISS SPAETH.

As. GRAMMAR AND READING.

This will continue the grammar and finish the verb, the particles, and review the work of Af and Aw. About eighty pages of more advanced reading, including an easy play. Thomas's *Practical German Grammar* will be the text-book.

MISS SPAETH.

1f. COMPOSITION AND READING.

This is intended for those who have completed Course A and for others who read German readily but are deficient in grammar.

This course will include the use of the article, the gender, number and syntax of nouns; review of the noun declension, syntax of the adjectives; review of the adjective declension; about eighty pages of more difficult prose reading; exercises and original composition.

MISS ANDREWS.

1w. COMPOSITION AND READING.

This will include the use of the numerals, the syntax of pronouns, the verb as far as the use of moods; about eighty pages of more advanced reading; exercises and original composition.

MISS ANDREWS.

1s. COMPOSITION AND READING.

This will include the use of the moods, the conditional and imperative, the infinitive, the participle, the adverb, the preposition and the conjunction, exercises and original composition; about eighty pages of advanced reading, including Lessing's *Minna von Barnhelm* and Schiller's *Wilhelm Tell*.

MISS ANDREWS.

3. AUFSÄTZE AND STILÜBUNGEN.

The more difficult principles of syntax and the elements of style will be thoroughly treated in connection with original essays in German and the study of German syntax. Otto Lyon's *Handbuch der Deutschen Sprache* will be the text-book.

Associate Professor PRIMER.

4. AUFSÄTZE AND STILÜBUNGEN.

This course is a continuation of Course 3. Syntax and style will form the principal feature; graded themes based on Schiller and Goethe.

Associate Professor PRIMER.

8f. SCHILLER.

The life of Schiller and his first literary period, including his early poems and youthful dramas.

Adjunct Professor METZENTHIN.

8w. SCHILLER.

Continuation of 8f. Interpretation of his best dramas, showing the development of Schiller.

Adjunct Professor METZENTHIN.

8s. SCHILLER.

Continuation of 8w and completing Course 8 in the University. Schiller's lyric poems and ballads interpreted in the light of his critical essays.

Adjunct Professor METZENTHIN.

17f. GOETHE.

His life and youthful period, treating of the Sturm-und-Drang periods and his early lyrics and dramas.

Adjunct Professor METZENTHIN.

17w. GOETHE.

His classical dramas and their influence on German literature.

Adjunct Professor METZENTHIN.

17s. GOETHE.

His novels and other prose works.

Adjunct Professor METZENTHIN.

18f. MODERN GERMAN WRITERS.

General view of the period; the text-book will be Grotthuss's *Probleme und Character Köppe*, Sudermann's *Johannes*, Hauptmann's *Versunkene Glocke*.

Associate Professor PRIMER.

18w. MODERN GERMAN WRITERS.

The study of the modern novel and short story of Sudermann, Frenssen, Clara Viebig, and others.

Associate Professor PRIMER.

18s. MODERN GERMAN WRITERS.

The study of the modern drama; Hauptmann, Sudermann, and others.

Associate Professor PRIMER.

GOVERNMENT

1f. COMPARATIVE CONSTITUTIONAL LAW.

In this course the governments of England and the United States are compared.

Adjunct Professor POTTS.

GREEK

Af. BEGINNER'S GREEK.

In this course the study of Greek is begun by the use of Goodell's *The Greek in English* (H. Holt and Co.). This completed, Ball's *Elements of Greek* (The Macmillan Co.) is taken up, with Moss's *Greek Reader* (Allyn and Bacon).

Professor BATTLE and Adjunct Professor PENICK.

Aw. BEGINNER'S GREEK.

This is a continuation of Greek Af. Ball's *Elements of Greek* and Moss's *Greek Reader* will be used as text-books.

Professor BATTLE and Adjunct Professor PENICK.

20s. BEGINNER'S GREEK.

The *Anabasis* of Xenophon is taken up with Goodwin's *Grammar*.

Professor BATTLE and Adjunct Professor PENICK.

NOTE.—Courses Af, Aw, and 20s go together as the work necessary to enter Freshman Greek (Greek 1). They may not be counted separately. Together they count either (1) as two admission credits plus one-third of a course toward the degree, or (2) as one and two-thirds courses toward the degree.

6. NEW TESTAMENT GREEK.

This is an elementary course in the reading of the New Testament. It presupposes such a knowledge of Attic Greek as would correspond to Greek Af, Aw, and 20s, described above. It is intended for those who would like to read the sacred books of Christianity for themselves in the original, unbiased by any ecclesiastical interpretation. Westcott and Hort's *Text with Lexicon* (The Macmillan Co.) is used.

Adjunct Professor PENICK.

NOTE.—Those desiring other work than is here offered are invited to communicate with Professor Battle. If there is sufficient demand, other courses may be offered.

HISTORY

1f. ANCIENT HISTORY.

1w. ANCIENT HISTORY.

1s. ANCIENT HISTORY.

These three courses together will include the history of Greece and Rome to the Fall of the Western Empire. Text-books: Bury's *History of Greece for Beginners*; Pelham's *Outlines of Roman History*; Gibbon's *Decline and Fall of the Roman Empire* (Student's Edition); Putzger's *Historischer Schul-Atlas*.

Dr. DUNCALF.

4f. HISTORY OF ENGLAND.

4w. HISTORY OF ENGLAND.

4s. HISTORY OF ENGLAND.

These three courses will cover the history of England, Terry's *History of England* being used as the text-book. The work will include some study of the sources of English history and will pay special attention to the organization of the subject.

Mr. RAMSDELL.

5f. HISTORY OF THE UNITED STATES.

5w. HISTORY OF THE UNITED STATES.

5s. HISTORY OF THE UNITED STATES.

These three courses will together contain a general survey of the United States history from the discovery of America to the present time. A text-book will be used and each student will be expected to do considerable reading in the four volumes of Hart's *American History as Told by Contemporaries*, especial attention being paid to Vol. III.

Mr. WORLEY.

INSTITUTIONAL HISTORY

1f. ELEMENTS OF INSTITUTIONAL HISTORY.

The psychic factors and physical conditions of civilization are considered in this course. Civilization is traced through its three stages: the Natural State, the Proprietary Period, and the Commercial Era.

Professor KEASBEY.

LATIN

It is to be understood that these courses are designed for earnest and mature students only.

PROSE COMPOSITION

X. COURSE FOR BEGINNERS.

Text-book: Bell's *Concise Latin Course* (The Macmillan Co.). This course is preliminary to the Cæsar courses and does not count toward a degree.

Adjunct Professor PENICK.

2. PROSE COMPOSITION.

Text-book: Ritchie's *Latin Prose Composition* (Longmans, Green and Co.), or Miss Lavender's outline course (mimeographed). This course, if pursued with a high degree of efficiency, can be counted as a one-third course for the bachelor's degree; or, if pursued with less success, will be counted as fulfilling the entrance requirement in prose composition.

Miss LAVENDER.

EASY READING COURSES, PROSE AUTHORS

L. CAESAR DE BELLO GALLICO (Books II and III).

M. CAESAR DE BELLO GALLICO (Book I).

N. CICERO, PRO LEGE MANILIA.

O. CICERO, TWO OR MORE ORATIONS AGAINST CATILINE.

These courses will be offered in sequences to suit the other engagements of the instructor, and may be taken by the student in any sequence. In the beginning, at least, any edition of the texts will serve, but all students should provide themselves with the Latin Grammar of Gildersleeve and Lodge (School Edition), to which constant reference will be made in the correction of papers.

Adjunct Professor PENICK.

P. VERGIL, THE AENEID (Book I).

Scansion and phrasing, as well as careful translation, will be taught in this course.

Miss LAVENDER.

NOTE.—The easy reading courses are designed to fulfill the requirements for admission to the regular Freshman work in Latin, and do not count toward a degree.

FRESHMAN COURSES

1w. VERGIL, THE AENEID (Books II-IV).

1f. CAESAR, THE CIVIL WAR (Book III).

1s. CICERO, WOLFORD'S SELECTIONS (The Clarendon Press).

Only so many students can be admitted to these courses, for the present, as the other engagements of the instructor in charge will permit.

LAW

NOTE.—The courses in Law which are prefixed by an asterisk are double courses, the fee for each, therefore, being \$14. The other courses contain the usual amount of work.

*AMERICAN ELEMENTARY LAW.

Text, Townes's *American Elementary Law*, Constitutions of the United States and of Texas, Texas Statutes.

Dean TOWNES.

*CONTRACTS.

Text, Huffcut and Woodruff's *Cases on Contracts*.

Professor HILDEBRAND.

*TORTS.

Townes's *General Principles of the Law of Torts*, Texas Statutes and Cases.

Dean TOWNES.

COMMERCIAL LAW.

Texas Criminal Code, Constitutions of the United States and of Texas, Cases.

Professor TARLTON.

CRIMINAL PROCEDURE.

Texas Code of Criminal Procedure, Constitutions of the United States and of Texas, Cases.

Professor TARLTON.

AGENCY.

Huffcut's *On Agency* and Huffcut's *Cases on Agency*.

Professor HILDEBRAND.

With the limited teaching force in the Law Department, it is not practicable to offer more courses at this time.

MATHEMATICS

1f. SOLID GEOMETRY.

This course will be based on some standard American text and will include the solution of a considerable number of so-called "original" problems and the careful drawing of a number of figures.

Professor RICE.

1w. **PLANE TRIGONOMETRY.**

Based on one or more of the numerous texts, this course will cover the elements of plane trigonometry. Special attention will be paid to the solution of practical problems and to the concrete side of the subject.

Professor BENEDICT.

1s. **ADVANCED ALGEBRA.**

This work will include the study of quadratic and higher equations, of simultaneous equations, of the progressions, of the binomial theorem, and of logarithms. Special emphasis will be placed on the graphical representation of equations and on the numerical aspect of algebra; attention will be called to identities, to equivalent equations, and to limits. Numerous examples will be solved.

Mr. CALHOUN.

15f. **ANALYTIC GEOMETRY.**

The elementary analytics of the straight line and circle will be given in this course, and an effort will be made to put the student in possession of the ideas that underlie the subject. Numerous problems will be solved and a standard text will be used for this and the two following courses.

Miss DECHERD.

15w. **ANALYTIC GEOMETRY.**

This is a continuation of 15f and will deal with the properties of the ellipse, hyperbola, and the parabola.

Miss DECHERD.

15s. **ANALYTIC GEOMETRY.**

This is a continuation of 15w and will deal with a few of the higher plane curves and with the beginnings of solid analytic geometry.

Miss DECHERD.

3f. **CALCULUS.**

This course will include the elements of differential calculus. Differentiation and its applications to maxima and minima, points of inflection and curvature, will be considered as far as time permits. A standard text will be used for this and the following courses.

Mr. CALHOUN.

3w. **CALCULUS.**

This course will include the integration of standard elementary forms and the application of such integrals to areas, volumes, lengths, moments of inertia, and centers of gravity.

Mr. CALHOUN.

3s. CALCULUS.

This course will be an extension of the two previous courses.

Mr. CALHOUN.

4f. POPULAR ASTRONOMY.

This will be a culture course for those desiring a general knowledge of descriptive astronomy. Despite the fact that astronomy is a highly developed and specialized science, a valuable knowledge of it may be gained by the general student who knows but little of mathematics, physics, or chemistry. Excellent text and reference books exist, which a student who has a high-school training in mathematics can read without serious difficulty.

When demanded, an additional course in astronomy may be offered.

Professor BENEDICT.

MINING ENGINEERING

12f. MINING.

This course is intended to give an insight into prospecting, opening up, and developing mines. The systems of mining coal and ores, and the quarrying of building stones are covered. It describes and gives the use of explosives, miner's tools, machine rock drills, coal mining machines, etc. Other features of practical mining are treated.

Adjunct Professor ROWE

12w. MINING.

This course is more technical than 12f, and deals with the engineering features connected with mining such as drainage, pumping, haulage, hoisting, lighting, ventilation, etc. It includes boring by diamond and other drills for oil and prospecting purposes. This course will be largely descriptive, but a number of problems will be solved and designs will be required.

Adjunct Professor ROWE.

15f. METALLURGY.

A brief general course in metallurgy will be followed by a more detailed study of the methods of extracting iron, mercury (quicksilver), and zinc from their ores and preparing them for use. The first part of this course is intended to be preliminary to the study of the metallurgy of all metals.

Adjunct Professor ROWE.

15w. METALLURGY.

This course covers the metallurgy of lead and copper. These metals are mostly treated by smelting methods and often carry gold and silver,

hence lead or copper smelting is often the first step in gold or silver extraction. Courses 15w and 15s are, therefore, closely connected, and Course 15w must be taken in order to get fully the metallurgy of gold and silver. Lead and copper refining is covered.

Adjunct Professor ROWE.

15s. METALLURGY.

This course covers the extraction of gold and silver from ores, and metallurgical products and refining.

Adjunct Professor ROWE.

PHILOSOPHY

1f. ELEMENTARY PSYCHOLOGY.

This course takes up the general study of mental processes. Its object is to give a survey of the more important psychological facts, to train the student to observe the processes of his own experience and those of others, and to enable him to appreciate critically whatever he may read along psychological lines. It is introductory to all work in philosophy and an important part of equipment for all other fields of investigation.

Dr. YOAKUM.

2. LOGIC.

This course presupposes Psychology 1f or its equivalent. The object of the course is to point out the laws of clear and logical thought processes. Special attention will be given to logical fallacies and their correction. An illogical mind can seldom if ever be made logical, but the pointing out of defects and the remedies will greatly aid one in his endeavor to think accurately, and speak and write convincingly.

The nature of the course will be text-book work along with careful analytical study of specific arguments selected from the fields of political science, philosophy, religion, etc.

Mr. KEEN.

11s. ADVANCED PSYCHOLOGY.

This course presupposes a familiarity with the subject-matter of psychology such as may be gained from Course 1f or any equivalent period of careful study in any of the more recent introductory texts. It is a more critical consideration of the problems and methods of psychology, together with a detailed presentation of certain special studies.

Dr. YOAKUM.

15W. COMPARATIVE PSYCHOLOGY.

This course presupposes the training of Course 1f or its equivalent and some knowledge of the methods of experimental psychology. It is a presentation of recent careful and scientific studies on the nature of the animal mind and its relation to the human mind. The best methods now used of interpreting human and animal behavior are outlined and explained.

Dr. YOAKUM.

30. PROBLEMS OF PHILOSOPHY.

This is a beginner's course in philosophy. Its object is to present in a popular way the problems dealt with in philosophy. Technical terms and methods will be avoided as far as is consistent with accuracy. Among the problems discussed will be the relation of body and mind; pluralism and monism; matter; the soul and personal identity; pragmatism; evolution; and "free will."

This is a lecture course exclusively, but many parallel references will be cited.

Mr. KEEN.

9. HISTORICAL COURSE.

Period covered: Greek and Medieval.

Texts used: Windelband, *History of Philosophy*. Plato: *Dialogues*. Aristotle: *Ethics*. Bokewell: *Source Book in Ancient Philosophy*.

Collateral readings will be assigned from time to time. Prerequisite: Courses 1, 2, and 3; or Courses 30 and 31.

The purpose of the course is to give the student an acquaintance with the views of the Greek philosophers in particular, together with a general view of philosophical development down through the Middle Ages.

Mr. KEEN.

PUBLIC SPEAKING

8W. ORATORY.

This course will deal with the theory and practice of oral discourse; study of the oratorical style, with practice in the preparation of different kinds of speeches and addresses. Text-book: *The Rhetoric of Oratory* (Macmillan, Dallas, \$1.10).

8S. ORATORY.

This course will consist of the critical analysis of oratorical masterpieces, with study of notes thereon, and written outlines and reports. Text: *Masterpieces of Modern Oratory* (Ginn, Dallas, \$1.10).

Course 8W must precede or accompany this course.

10w. DEBATE.

This course will consist in a study of the theory and principles of argumentation: the analysis of a proposition, use of evidence, kinds of arguments, methods of proof and refutation; together with some practice in brief-writing and argumentative composition. Text-book: *Science and Art of Debate* (University Co-operative Society, Austin, \$1.25).

10s. DEBATE.

A critical analysis of masterpieces in argumentation will be made in this course, the arguments studied being carefully briefed.

Course 10w must precede or accompany this course.

11f. ADVANCED ORATORY.

This course will consist of a study of the history of oratory, and of oratorical literature in the Grecian and Roman periods. Sear's *History of Oratory* (Scott, Foresman, and Co., Chicago, \$1.50) will be used as a text, and written reports on collateral reading will be required.

Prerequisite: Two full courses in Public Speaking.

NOTE.—Before registering for Course 11, the intending student should correspond with the instructor regarding the accessibility of necessary books.

11w. ADVANCED ORATORY.

This course will embrace a study of the oratory of the French Revolution, of English Parliamentary oratory, and of American oratory of the Colonial period.

Course 11f must precede or accompany this course.

11s. ADVANCED ORATORY.

In this course will be taken up a study of Modern American oratory, with special reference to the oratory of the South.

Courses 11f and 11w must precede or accompany this course.

14. ORATORICAL COMPOSITION.

In this course there will be a fuller development of the work embraced in Course 8w, which is a prerequisite. Practice will be had in the preparation of various kinds of speeches and addresses. Text-book: Baker's *Forms of Public Address*, \$1.25.

16. ARGUMENTATIVE COMPOSITION.

The work in this course will consist in writing briefs, and argumentative essays based on the briefs, of debatable questions of the day.

This course must be preceded by Course 10w.

Associate Professor SHURTER.

SPANISH

Af. BEGINNER'S SPANISH.

Hills and Ford's *Spanish Grammar*; Marion Y. des Garenne's *Introducción á la Lengua Castellana*; Asensi's *Victoria y otros Cuentos*; Valdes's *José*; easy sight reading; easy composition. These books cost about \$3.75.

Miss HUBBARD.

2f. CONTEMPORARY LITERATURE.

2w. CONTEMPORARY LITERATURE.

2s. CONTEMPORARY LITERATURE.

These three courses together will include the reading of modern Spanish novels, essays, plays, and lyrics; composition; outline of Spanish Literature. They presuppose Courses Af, Aw, As, 1f, 1w, 1s, and are prerequisite to all advanced courses in Spanish.

Associate Professor CASIS.

Aw. BEGINNER'S SPANISH.

Continuation of Af, using the same texts.

Miss HUBBARD.

As. BEGINNER'S SPANISH.

Continuation of Aw, using the same texts.

Miss HUBBARD.

1f. GRAMMAR, READING, AND COMPOSITION.

Ramsey's *Spanish Grammar*; composition; letter writing; prose reading, some collateral texts, varying from year to year. Examination will include sight reading and translation. The books for this course will cost about \$4.00.

Course Af, Aw, and As are prerequisite.

Miss HUBBARD.

1w. GRAMMAR, READING, AND COMPOSITION.

Continuation of 1f. The additional books will cost about \$2.00.

Miss HUBBARD.

1s. GRAMMAR, READING, AND COMPOSITION.

Continuation of 1w. The additional books will cost about \$2.00.

Miss HUBBARD.

ZOOLOGY

16f. GENERAL PHYSIOLOGY AND HYGIENE.

The object of this course is to give the student a general knowledge of the structure and functions of the human body, and of the care of its parts. The work will be arranged so as to be equivalent to, but not identical with, one-third of Course 16 of the School of Zoology in the regular catalogue. Besides making a careful study of assigned readings, the student will also make a general dissection of a mammal (rabbit or cat), presenting a written report thereon.

Dr. PATTERSON.

15w. GENERAL EVOLUTION.

Assigned readings from several standard works. This course will deal fairly and fully with the fundamental evolutionary problems, and can be taken by those who have had no previous zoological training and who desire merely some knowledge of the broader results of the subject. The books needed in this course will cost about \$5.00.

Professor NEWMAN.

18w. HEREDITY.

Assigned reading from several standard works. This course will be a sequel to that on General Evolution and will deal in much greater detail with the principles of heredity. It may, however, be taken by students who have had no previous knowledge of Zoology. The following are some of the main topics to be considered: The facts of physical, mental, and moral inheritance; Galton's laws of ancestral inheritance; Mendel's laws; the inheritance of acquired character; the principles and practice of animal-breeding; the physical basis of heredity. The books needed in this course will cost about \$5.00.

Professor NEWMAN.

NOTE.—It is hoped that it will be found possible next year to offer correspondence courses in certain aspects of *Economic Zoology*.

CORRESPONDENCE COURSES PREPARING FOR TEACHERS' CERTIFICATES

For general remarks concerning these courses see page 11.

ALGEBRA

The amount of Algebra covered in this course will be about that contained in the best High-School texts. Some acquaintance with the early part of the subject will be assumed. The topics treated will be factoring and its applications, ratio and proportion, linear equations of one or more unknowns, quadratics including radicals, simultaneous equation, graphs, progressions, and logarithms. A recent High-School text will be used as the basis of the course.

Mr. CALHOUN.

BOOKKEEPING

While the work in bookkeeping is intended primarily for teachers preparing for examination in the subject, the course will cover, with same degree of thoroughness, the theory of accounts. Exercises both in Single and in Double Entry Bookkeeping will be given; also instruction in the preparation of the ordinary forms of business papers.

Adjunct Professor LOMAX.

CHEMISTRY

A course in chemistry suitable for certificate students is now being carefully planned. Students may register for this course at any time after Oct. 1, 1910. A leaflet describing this course more particularly will be issued later.

Associate Professor SCHOCH.

PLANE GEOMETRY

The course in plane geometry will be directed to the end that the student may be enabled to see the subject as a coherent and logical development and not as a collection of arbitrary steps. Attention will be called to such propositions as are frankly assumed without proof, to certain basic propositions that can be immediately inferred from them, and, finally, to the whole fabric built on these. The instruction in the course

will be, as far as possible, adjusted to the student's previous acquaintance with the subject. Some recent text will be used as an outline.

MR. CALHOUN.

SOLID GEOMETRY

In this course, emphasis will be placed on the structure of the proofs, on the similarities and the differences between plane and solid geometry, on the construction of figures, and on numerical exercises. A standard text will be used.

MISS DECHERD.

HISTORY OF EDUCATION

General Statement.—The History of Education is divided into three periods, and will be given in three distinct courses. Ancient Education, Medieval Education, and Modern Education. They may, however, be pursued in any order. Special effort will be made to trace the evolution of our present educational ideas and practices, and also to discover the relation in each period of the education and training to the existing social, political, economic, and philosophic conditions.

Ancient Education will be given in 1910, Medieval Education in 1911, Modern Education in 1912.

A. ANCIENT EDUCATION.

In this course a preliminary survey will be made of primitive and oriental culture and modes of training. Greek civilization and education form the major part of the work, and will be studied intensively. Special attention will also be directed to the influence which Greek culture exerted upon Roman civilization, and upon early Christianity. A study of Roman Education to the age of Quintilian will conclude the course. So far as practical use will be made of the sources, and attention given to the Great Theorists.

B. MEDIEVAL EDUCATION.

Brief attention will be given to Jewish Education, and in so far as it explains Christianity, Primitive Christian Education. The Decay of the Greco-Roman Schools, Monasticism, and Celtic Culture will be discussed in detail in connection with the early part of the Middle Ages. Arabian Learning, Scholasticism, the Rise of Universities, Burgh Schools, Mysticism, and the influence of Feudalism, Crusades, and Knighthood will be fully considered. A study of the inner work of the schools and the extent of the curriculum will be made.

C. HISTORY OF MODERN EDUCATION.

This course will present a thorough examination of the Humanistic revival, the Reformation, and Counter-Reformation, the Baconian Scientific influence on Education, and the Rise of State interest in schools. So far as practical a study will be made of the great educational reformers such as Locke, Rousseau, Pestalozzi, Froebel, Herbart, etc. A brief summary of educational progress during the nineteenth century.

In each of the above courses, standard texts will be used.

Adjunct Professor EBY.

GENERAL HISTORY

In the following courses standard texts will be used. Ancient History will be given in 1913, Medieval in 1912, and Modern in 1911.

A. GENERAL HISTORY—ANCIENT HISTORY.

Ancient History, from the dawn of civilization to the establishment of Germanic kingdoms in western Europe, cir. 500 A. D. A brief survey of the rise of civilization in the eastern nations will be made; but approximately one-third of the course will be devoted to Greece, and two-thirds to Rome.

B. GENERAL HISTORY—MEDIEVAL HISTORY.

Medieval History, from the break-up of the Roman Empire to the 16th century. The chief topics treated will be the early church, monasticism, the Carolingian empire, feudalism, the Holy Roman Empire, the rise of the papacy, the development of France and England, medieval culture, the crusades, the rise of the Italian and German cities, and the revival of classical learning.

C. GENERAL HISTORY—MODERN HISTORY.

Modern History, from the beginning of the Protestant Revolution to the present time.

Especial attention will be given to the Protestant Revolution; the religious struggles in Germany, France, the Netherlands, and England; the ascendancy of France under Louis XIV; the constitutional development in England; the rise of Prussia and Russia; the colonial expansion of England; the causes and progress of the French Revolution; the work of Napoleon; the conflict of liberalism and reaction in Europe; the

unification of Germany and Italy; and some aspects of contemporary Europe.

LITERATURE, ENGLISH AND AMERICAN

This course will aim to give, in the first place, a general survey of English and American Literature. To this end the student is advised to study the following books: Newcomer's *English Literature*; *Masterpieces of American Literature*; and Bronson's *A History of American Literature*. The main object of the course, however, will be to study a number of the most typical English and American masterpieces. For 1910-11 the books studied carefully will be: Shakespeare's *Macbeth*; Styles's *From Milton to Tennyson*; Carlyle's *Essay on Burns*; Washington's *Farewell Address*; and Webster's *First Bunker Hill Oration*. Acquaintance with the contents and style of certain other English and American classics will be expected.

Dr. LAW.

PHYSICS

PHYSICS A.

The course will cover the topics: mechanics; properties of matter and heat, as presented in Hoadley's *Elements of Physics* (American Book Co.), pages 1-164 and 208-260.

To be given in 1910-11.

PHYSICS B.

The course will cover the topics: sound, light, magnetism and electricity, as presented in Hoadley's *Elements of Physics* (American Book Co.), pages 165-207, 261-448.

To be given in 1911-12.

PSYCHOLOGY

The course covers the same ground as the course in Psychology in the University Summer Normal. The chief topics are: psychology in teaching, nature of mind, nature of education, instinct, habit, association, memory, conception, apperception, interest, attention, will. The work will be based chiefly on James's *Talks to Teachers on Psychology* (Holt and Co., New York). The following books will also be helpful: Halleck's *Psychology and Psychic Culture* (American Book Co., New York); Gordy's *New Psychology* (Hinds, Noble, and Eldridge, New York); and Thorndike's *Elements of Psychology* (A. G. Seiler, New York).

The cost of materials for this course will be covered by the cost of from two to four of the above-mentioned books, varying in price from \$1.00 to \$1.50.

Dr. RALL.

TRIGONOMETRY

Based on one of the numerous texts, this course will cover the elements of plane trigonometry. Special attention will be paid to the practical side of the subject.

DEPARTMENT OF EXTENSION

CORRESPONDENCE DIVISION

List of Students—October 1, 1909, to July 1, 1910.

Adair, Fletcher A.,	M.,	New Mexico.
Adams, Walter Silas,	E.,	Lindale.
Alexander, Eva,	Ed.,	Stratford.
Alexander, Pearl	Ed.,	Stratford.
Allen, Walter Rice,	Law,	Ochiltree.
Anderson, J. M.,	L.,	Dalhart.
Anderson, R. M.,	Z.,	Austin.
Angell, Lee Mack,	M.,	Leggett.
Anthony, G. E.,	Ed.,	Austin.
Askew, Lucia,	E., H.,	Baileyville.
Ayres, Sister Mary Angelique,	M.,	San Antonio.
Baker, Beulah,	G., L.,	Ballinger.
Baker, Paul,	E.,	Albany.
Beavers, Willie May,	Ph.,	Ebony.
Beazley, Julia,	E.,	Austin.
Beckett, Mary D.,	H.,	Austin.
Beilharz, Erna,	Ed., G.,	Dallas.
Biggs, C. R.,	M.,	Texarkana, Ark.
Bishop, Chas. M.,	E., H.,	Giddings.
Blair, Ethel,	G.,	Corsicana.
Blair, Samuel Abdill,	Z.,	Austin.
Bolding, Alexander P.,	Law,	Nugent.
Bonner, Thos. Davenport,	Law,	Tyler.
Bradfield, Tillie,	Ed., G.,	Matinburg.
Brennan, Edward Albert,	Ed.,	Texarkana, Ark.
Bringhurst, Lillie Conklin,	H.,	Houston.
Britt, Marvin Orestes,	M.,	Center Point.
Brown, John Dayton, Jr.,	E., L., Law,	Gatesville.
Brown, William Franklin,	M.,	Manchaca.
Brown, Will L.,	Ed.,	Runge.
Broyles, J. S.,	C. E.,	Hilda.
Brundage, Daisy,	M.,	Fort Worth.
Byrd, Virgil Alonzo,	L.,	Blanket.
Byrne, Thos. Sneed,	M., P. S.,	Austin.
Campbell, Mary Agnes,	Gr.,	Beaumont.
Chilton, Florence Shelley,	Ed., H., Ph.,	Pearsall.
Christie, Nellie,	E.,	McGregor.
Clark, Wm., Nelson,	L.,	Plymouth.
Cleveland, Katherine,	E.,	Cleburne.
Collins, Rosina G.,	Ed.,	Austin.
Coltrane, Daisy M.,	H., P. S.,	Austin.
Coston, N. A.,	L.,	Farmersville.
Cook, James P.,	G.,	Hillsboro.
Corley, Quentin D.,	E.,	Dallas.
Cross, C. C.,	H.,	McKinney.
Crossley, John Hall,	E. E.,	San Antonio.
Daniel, Grover Cleveland,	Ed.,	Beaumont.
Davenport, Ella,	E.,	Austin.
Dean, Daniel E.,	B., L.,	Edgewood.
Denman, L. G., Jr.,	H.,	Austin.
Donaldson, Mary Elizabeth,	E.,	Port Arthur.
Du Bose, Guerin,	H.,	Alief.
Early, Mary Virginia,	E.,	Crosbyton.
Eason, Margaret Elizabeth,	E.,	Tyler.
Eaton, Alfred Harmon,	Law,	Denton.
Ellis, Nannie Leland,	E.,	Colorado.

Ellis, Radford T.,	Ed.,	Forreston.
English, Mary Emma,	L.,	Celina.
Fagan, Sr. Immaculate,	L.,	San Antonio.
Findley, S. C.,	Ed., M.,	Comanche.
Finney, John,	Law,	Burkburnett.
Flack, Kate H.,	F.,	Llano.
Foster, A. L.,	E., M.,	Taylor.
Garrison, Bessie Barham,	Ed.,	Nacogdoches.
George, Libbie Lee,	E., G., M.,	Ennis.
Gilpin, Nell,	Ph.,	Plano.
Graham, Edna,	M.,	Cleburne.
Graham, William Aaron,	E.,	Fauchon.
Hamilton, Lucy,	Ph.,	Dublin.
Hare, Mabel,	E.,	Kirkland.
Haywood, Ben Whitaker,	Eng.,	Voth.
Heineke, Carolyn,	E.,	Brenham.
Henson, C. J.,	Law,	Throckmorton.
Hill, Joseph Abner,	H.,	Roscoe.
Holley, Mrs. Helena,	E.,	Houston.
Hooker, Gertie,	E.,	De Leon.
Howren, Alleine,	Ed., S.,	El Paso.
Huffman, S. D.,	M.,	Caddo.
Hughes, Chas. Gilmore, Jr.,	Law,	Hillsboro.
Hughston, David Samuel,	H.,	Tulia.
Jackson, Cicero Everett,	Law,	Blooming Grove.
Jarvis, Marie C.,	S.,	Laredo.
Johnson, Agnes,	E.,	Hugo, Okla.
Johnson, John Franklin,	E.,	Darwin.
Jordan, Dee,	E.,	El Paso.
Kirkland, Agnes,	G.,	Dallas.
King, Alice R.,	H.,	Holland.
Kleberg, W. Richard,	G.,	Austin.
Knight, Thos. A.,	Gr.,	Dallas.
Koch, Anna,	M.,	Henrietta.
Konz, Sr. M. of Good Counsel,	L.,	San Antonio.
Lake, Emma,	Ed., M.,	Marshall.
Lipscomb, Essie,	E.,	Fort Stockton.
Lochhead, Jewel,	G., Gr.,	Gilmer.
Lofland, Hugh B.,	E.,	Garland.
Lott, Henry,	Ed.,	Fredericksburg.
Ludlam, Bessie,	H.,	Harlingen.
Lyon, Dove James,	S.,	Rockdale.
MacGregor, Anna K.,	S.,	Minera.
McIntyre, Wm. V.,	P. S.,	Austin.
McIntosh, William Albert,	Gr., M.,	Bettie.
McMeans, Howard,	P. S.,	Austin.
Marquis, Robt. Lincoln,	B., Ed.,	Mineral Wells.
Martin, Thomas Powderly,	H.,	Sweetwater.
Masterson, Earnest R.,	Law, Pub. Sp.,	Voth.
Masterson, William Edward,	G., H., Pub. Sp.,	San Angelo.
May, Anna Belle,	Gr.,	Seguin.
Miller, Benjamin Washington,	Ed.,	Denton.
Miller, Emma F.,	E.,	Moody.
Miller, Samuel Oscar,	P. S.,	Austin.
Mizell, Chas. Melvin,	M.,	Corsicana.
Moers, Edwin A.,	Pub. Sp.,	Henrietta.
Monahan, Stephen Drury,	H.,	Austin.
Montgomery, Paul Vaughan,	M.,	Dallas.
Mooney, Raymond Vernon,	Law,	Dallas.
Mooring, Eugene Christopher,	Eng.,	Longview.
Munson, Margaret,	E., H.,	Denison.
Nelson, Edith Adele Elizabeth,	G., M.,	Round Rock.
Nelson, Ralph R.,	Ed.,	Newark.
Newton, James Henry,	E.,	Cooper.
Nickell, Clarence L.,	Law,	Bono.

Norvell, Samuel Johnson,	Ed., G., H.,	Cuero.
O'Connor, Edgar Hill,	M., H.,	Elgin.
Odell, Margaret,	M., H.,	Hidalgo.
Oliver, James Burton,	M.,	Bellville.
Patton, Jesse McCoy,	Ed.,	Richmond.
Payne, Ora Leila,	E.,	Coleman.
Pegram, Wilhelmina,	H.,	Crockett.
Pickett, Jas. D'A.,	Law,	San Felipe.
Pickney, Theo. F.,	C. E.,	Austin.
Porter, Hugh,	E., S.,	Denton.
Poynor, Mary,	Ed.,	Thorp Springs.
Rather, Alma,	S.,	Gonzales.
Reid, Mrs. Bruce,	E. E.,	Port Arthur.
Reynolds, Preston P.,	H.,	Austin.
Richards, Arthur Lee,	M.,	Wayside.
Richards, Mrs. Laura Alexander,	M.,	Wayside.
Richardson, Roxa Ray,	L.,	Floresville.
Richmond, Sadie C.,	S.,	Ennis.
Rob, Sam Tom,	Law,	Temple.
Roy, Mrs. Wm. A.,	S.,	Minera.
Rubert, Rebecca,	E.,	Port Lavaca.
Schmidt, Charles F.,	E.,	Eckert.
Saegert, Joachim Friedrich,	H.,	Seguin.
Seale, Edward Wynn,	E., H.,	Floresville.
Shanks, William Homer,	M., L.,	Clyde.
Shelton, John Presley,	E.,	Rockwall.
Silverstein, Lillie E.,	M.,	Houston.
Smith, Eula Pearl Vickrey,	Ed.,	San Antonio.
Smith, H. C.,	M.,	Lindale.
Smith, Mrs. J. R.,	Ed., Ph.,	Brackenridge.
Smith, Maggie Ruhannah,	H.,	Garner.
Smith, Mrs. Lydia H.,	E.,	Dallas.
Speck, Henry Eli,	G., M.,	Browndell.
Spell, Lota,	Ed., L.,	Bartlett.
Spell, Rea,	H.,	Bartlett.
Spoonts, Leslie,	H.,	Austin.
Stamps, Kitty Mae,	Ed.,	Seguin.
Stephens, Andrew Jackson,	H., Pub. Sp., S.	Waelder.
Stephens, James F. M.,	H., M.,	Woodville.
Stephenson, Lillian,	G.,	Brownwood.
Strauch, Winifred,	M.,	Nuecestown.
Stuart, Robt. A.,	L.,	Newark.
Suggs, Lula Murray,	E., L.,	San Antonio.
Sutton, Sister Mary of Providence,	E.,	San Antonio.
Tate, Dow Wallace,	Law,	Ennis.
Temple, Ida May S.,	E.,	Galveston.
Thaxton, Lamar,	G.,	Mason.
Thomas, Clyde E.,	E.,	Haskell.
Truly, Ethel Velpean,	G.,	Ballinger.
Tucker, James Lucius,	H.,	Austin.
Wallis, Clyde Vernon,	E.,	Dallas.
Watuston, Elizabeth,	Gr.,	McKinney.
Weddington, Wesa,	G.,	Seguin.
Weinert, Max H.,	G.,	Seguin.
Weiss, Lydia,	G.,	Taylor.
Wesley, Ophelia Clementine,	G.,	Vernon.
White, E. V.,	E.,	Abilene.
Williams, Benjamin Franklin,	E.,	Longview.
Williams, Hugh Kelly,	Ed.,	Yoakum.
Williams, Julia E.,	H.,	Austin.
Wolff, Ernest J.,	G.,	Marlin.
Wood, Austin Bertrand,	Pub. Sp.,	Galveston.
Wood, Gladys,	M.,	Pittsburg.
Wozencraft, F. W.,	E., S.,	Dallas.

II. PUBLIC DISCUSSION AND INFORMATION DIVISION

A. PUBLIC DISCUSSION AND DEBATING.

The Texas Declaration of Independence declares, "It is an axiom of political science, that, unless a people are educated and enlightened, it is idle to expect the continuance of civil liberty or the capacity of self-government." Guided by this wise statement, Texas has created a system of public education reaching from the primary school to the University; guided similarly, the University through its public discussion and information division is planning to furnish specific aid to the citizenship of Texas in the discussion of important public questions. This aid the University will attempt to furnish, as far as its resources permit, by means of traveling libraries accompanied by specific references to the books and articles contained therein, and by additional references for more extensive reading.

Important questions are before the public which demand wise solution. Many people desire to investigate such questions as prohibition, guaranty of bank deposits, city government by commission, prevention of contagious diseases, the initiative, the referendum; but it is difficult for them to secure accurate information. By sending out small traveling libraries containing books and articles relating to an important public question and by preparing careful lists of additional books and articles, the University hopes to be of service to public-spirited citizens who desire to form intelligent opinions concerning public affairs.

It is hoped that such traveling libraries and such lists of books and articles will be of real service to members of debating clubs, women's clubs, labor unions, public officials, and others.

Upon request these traveling libraries will be loaned free of charge to citizens of Texas who are willing to pay the express charges upon them both ways. They will be loaned for a period of three weeks, but extensions of time may be granted.

PENITENTIARY REFORM AND PROHIBITION

Traveling libraries dealing with Penitentiary Reform and Prohibition are now ready for distribution and may be had, until the supply is exhausted, upon application to the Director of the Department of Extension, University Station, Austin.

A bibliography giving a sufficiently exhaustive list of important books

on *Crime and the Treatment of Criminals* has been published by the Department and will be sent upon request.

SCHOOL BULLETINS AND PLANS

Bulletins dealing with various matters concerning schools will soon be issued, and detailed plans of school buildings accompanied by specifications and architects drawings are now ready for distribution. These bulletins are designed to be of particular service to the trustees and teachers of rural schools, and persons interested in these schools should write to Mr. A. S. Blankenship, University Station, Austin, for these bulletins and for further information.

B. PUBLIC INFORMATION.

Many questions relating to a vast variety of matters are continually coming into the University, which will continue to attempt to answer as far as possible all legitimate questions by referring them to various persons in its staff of instruction. Inasmuch as the replies to some questions demand time and care, the University can not guarantee to make complete investigations in every case, even if paid to do so; nevertheless it will do all in its power to put expert knowledge at the service of the people of Texas.

III. LECTURE DIVISION

Provision has been made to allow members of the staff of instruction of the University to deliver a few lectures in Texas towns when asked to do so. As some care is needed to prevent such lectures from interfering with the work of the class-room, arrangements in regard to any of these lectures should be made some time in advance with the Director of the Department of Extension.

The fee for each lecture will be \$25 in addition to the traveling expenses of the lecturer. A reduction will be made in case a lecturer can deliver two or more lectures the same day.

It is hoped that these lectures will appeal to such associations as women's clubs, teachers' clubs, literary societies, farmers' clubs, business leagues, county institutes, reading circles, and schools. In many cases a small admission fee will cover the cost of securing the lecturer and will tend to exclude the idly curious.

Each of these lectures, while planned to be popular, will convey a substantial amount of accurate information; and, unless the contrary be explicitly stated, is intended for adults and not for young children. The object is education and not merely entertainment.

When a lecture has been agreed upon, a traveling library selected by the lecturer will, upon request, be sent to the proper authorities in the town where the lecture is to be delivered for the use of those who intend to hear the lecture. This traveling library will be accompanied by a syllabus of the lecture and by explicit references to the material in the library. In this way the auditors can easily prepare themselves to listen with profit to a lecture. After a lecture has been delivered, opportunity will be afforded to the listeners to confer with the lecturer, either to clear up difficulties or to develop special points in more detail.

If notified sufficiently in advance, the Department of Extension will sometimes be able to furnish other lectures than those listed below.

In the case of a lecture illustrated by electrical stereopticon, the University will furnish, when asked to do so, the lantern, but those securing the lecture must provide for the electric current and the management of the lantern. Local expenses for advertising, tickets, hall, etc., must be paid by the organization securing the lecture.

LIST OF LECTURES

Illustrated stereopticon lectures are starred.

APPLIED MATHEMATICS.

- *1. The Sun and Moon.
- *2. The Planets as Abodes of Life.
- *3. The Stars.
(1 and 2 may be combined into one lecture, as may also 1, 2, and 3.)
- *4. Comets.
- 5. Time and Tide.

Professor BENEDICT.

BOTANY.

- 1. The Factory Owners. A consideration of the nutrition of typical green plants.
- 2. The Primitive Factory Owners. A consideration of nitrification in soils, how accomplished, and the agricultural importance of this process.
- 3. The Scavengers. A consideration of the work which bacteria and fungi perform in disposing of organic remains.
- 4. The Robbers. A consideration of the part which bacteria and fungi play in the production of disease in plants and animals.
- 5. The Profit-sharers. A consideration of mutualistic arrangement between plants, including the problems of the fixation of nitrogen and the maintenance of fertility.
- 6. The Hunters and Trappers. A consideration of plants which capture prey.

Professor HEALD.

- *1. Symptoms of Disease in Plants. Illustrated by colored lantern slides.
- 2. Bacteria in Daily Life.
- 3. The Evolution of Reproduction in Plants. Illustrated by colored crayon drawings and models.
- 4. The Significance of Color in Plant Life.

Professor HEALD.

EDUCATION.

- 1. The Life and Educational Services of Martin Luther.
- 2. Christian Education in the Twentieth Century.
- 3. The Unification of Educational Forces in Texas.
- *4. Some Wholesome Statistics with Respect to Education in the State of Texas. (Two lectures.)
- *5. The Public School System of Mexico.

6. The Education of the Modern Woman.
7. The Development of Educational Public Opinion.
8. Socrates, the Man and His Method.
9. Plato's Educational Message to the World.
10. The Status of School Supervision as a Profession.
11. The Determining Factors of the Curriculum of the Secondary School.
12. The Equipment of the Teacher for Successful Work in the Modern Sunday School.
13. Why Jesus of Nazareth is the World's Greatest Teacher.
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